AGS COld Snake Magnet Quenches - RHIC fy05

Date:	Ref Quench #	B	Y	Site-Wide Name	Technical Notes
Total Counts:		**0**	**0**		
Real Magnet Quenches:		***0***			

Super Conducting Buss Quenches - Fy05

Date:	Ref Quench #	B	Y	Site-Wide Name	Technical Notes
11-Apr	PR-107	1		B9QFBU9_7	The 10a-qd1 Quench Detector brought down the blue link due to a Real Buss Quench at B9QFBU9_7VT, Sector 9 Quad Focus Buss 9-7 because of the transfer of Warm Gas from the bi9-snk7-2.3 and bi9-snk7-1.4 Snake Magnet Quenching SQ-001. G Heppner
15-Apr	PR-114	1		B3QFBU9_7	A power dip had occurred at 03:18 in which bo3-snk7-2.3 and bo3-snk7-1.4 magnets quenched at Top Operating Current. Because of this, a flow of Warm Gas from the bi9-snk7-2.3 and bi9-snk7-1.4 Snake Magnet caused a Real Buss Quench at B3QFBU9_7VT, Sector 3 Quad Focus Buss 9-7. This caused the 10a-qd1 Quench Detector to bring down the blue link. G Heppner
20-Apr	PR-117		1	Y9QFBU9_7	The 9c-qd1-quench detector tripped because it detected a Gas Cool Lead Quench at yo9-snk7-R2_GL. A Cryogenic Flow Rate problem for this device (flow had been too low for over an hour) caused the Gas Cooled Lead to heat up and eventually quenched. Note that this device was not replaced. This caused the yo9-snk7.2.3-ps to trip off at operating current causing its magnet to quench. Approximately 2.149 seconds later, the yo9-snk7-1.4 magnet quenched due to perturbation. Then, the 10a-qd2-quench detector caused the yellow quench link to trip. The quench detector tripped because of a BUSS quench (Y9QFBU9_7VT) located in the yo9 snake magnet due to heated gas after the yo9-snk7-2.3 and yo9-snk7-1.4 magnets quenched. -G. Heppner [yellow] [quench]
2-May	PR-122	1		B5QFQ6_4VT	The 6b-qd1 quench detector tripped the Blue Link due to a real Buss quench at B5QFQ6_4VT due to Perturbation from the bi5-rot3-2.3 and bi5-rot3-1.4 magnets that first quenched 5.024 seconds earlier (SQ-007). Cryogenic flow is counterclockwise which would allow the heat wave generated by the Rotator Quench to go from Sector 5 to Sector 4 putting these magnets in harms way. G Heppner
12-Jun	PR-149		1	Y3QDQ8_VT	Refer to PR-150
12-Jun	PR-150	1		B3QFBU9_7VT	There was enough data that clearly shows that lead faults on the snakes in sector 3 quenched both blue and yellow snakes. The warm gas form these snake quenches quenched the main bus for both blue and yellow rings. Data also shows that the lead flow was increased for a short time before it went to a low level. This is what I believed happened. The lead current data from the Cryo server went down. The lead flow automatically goes to a high flow default value. The Cryo operators then brought the lead flow to a low value. This was in their Cryo e-log. This is what caused the snakes to have a lead fault. They should not have done this with current in the magnet. Some how the Cryo operators did not know the machine was a top energy and or MCR did not know it either. George Ganetis
Total Counts:		**4**	**2**		
Real Magnet Quenches:		***6***			

Corrector Magnet Quenches - RHIC fy05

Date:	Ref Quench #	B	Y	Site-Wide Name	Technical Notes
13-Jan	PR-002		1	y7-tv2	Yellow quench link trip was caused by 8b-qd2 quench detector. The quench detector tripped because of a real magnet quench at Y7QFQ3_VT. The beam permit tripped after the quench link. There were real magnet quenches at y7q3 and y7d0 . There were high beam losses at y7-lm3.2, y7-lm3.2c,y7-lm0, and g7-lm1 for over .076 sec. . Are the BLM thresholds correct? There is now 8 beam induced quenches for this run. There were no problems with any power supply prior to the quench. -Ganetis In addition to the y7q3 and y7d0 magnet quenches, yi7-tv2 also indicated a real magnet quench had occurred (high levels of radiation). G Heppner
19-Jan	PR-012	1		bi5-th3	Blue quench link trip was caused by 8b-qd1 quench detector. The quench detector tripped because of a real magnet quench at B7QFQ3_VT. The beam permit tripped .586 sec before the quench link. There were real magnet quenches at b7q3, b7q2, b7q1, b7d0 and b5q3 . There were high beam losses at b7-lm3.1, b7-lm2.1, b7-lm0, and g7-lm1 which did not occur until approx. 0.5 sec after the beam permit tripped. Also y7-tq4, y7-tq5, y7-tq6, bi5-th3, bo7-qs3, bo7-tv3, and bo7-th2 quenched. There is now 9 beam induced quenches for this run. There were no problems with any power supply prior to the quench. -Ganetis Further investigation into the RHIC abort kicker situation that caused the blue quench at 0134... It turns out that a beam abort event had occurred before the ring was filled and ramped. The abort kickers do not recharge after a beam abort event occurs. In this case, the beam abort event occurred, and then presumably the ring was filled without a cogging reset being issued in RHIC Injection (which should have recharged the abort kickers.) -jak This was also exacerbated by
19-Jan	PR-012	1		bo7-qs3	Reference to PR-012, bi5-th3, 19-Jan.
19-Jan	PR-012	1		bo7-tv3	Reference to PR-012, bi5-th3, 19-Jan.
19-Jan	PR-012	1		bo7-th2	Reference to PR-012, bi5-th3, 19-Jan.
21-Jan	PR-019		1	yo8-th2	Yellow quench link trip was caused by 8b-qd2 quench detector. The quench detector tripped because of a real magnet quench at Y7QFQ3_VT. The beam permit tripped after the quench link. There were real magnet quenches at y6q3, y7q3 and y8q3. Also yo8-th2 and yi6-th3 also quenched after the main magnets do to warm gas. There were high beam losses at these magnet location before the beam permit tripped. There were no problems with any power supply prior to the quench. The blue ring also had real magnet quenches due to beam loss. There is now 11 beam induced quenches
21-Jan	PR-019		1	yi6-th3	reference to PR-019, yo8-th3, 21-Jan.
21-Jan	PR-019	1		bo10-th20	Blue quench link trip was caused by 12a-qd1 quench detector. The quench detector tripped because of a real magnet quench at B11QFQ2_VT. The beam permit tripped after the quench link. There were real magnet quenches at b10d20 and b11q2. Also bo10-th20 and bo11-th2 also quenched after the main magnets do to warm gas. There were high beam losses at these magnet location before the beam permit tripped. There were no problems with any power supply prior to the quench. The yellow ring also had real magnet quenches due to beam loss. There is now 11 beam induced quenches for this run. -Ganetis
21-Jan	PR-019	1		bo11-th2	Reference to PR-019, bo10-th20, 21-Jan.
8-Feb	PR-054	1		bo11-th2	There was no indication of a power supply at fault prior to the quench. The 12a-qd1-quench detector caused blue Quench link to trip. The quench detector tripped because of a real magnet quench at B11QFQ2_VT. The beam permit tripped .039 sec. before the quench link. There where two real magnet quenches: b11q2 and bo11-th2. There was high beam loss at g11-lm1 and b11-lm0. There are now 22 beam induced quenches for this run. G Heppner
14-Feb	PR-059	1		bo7-qs3	There was no indication of a power supply at fault prior to the quench. The Blue Quench Link trip was due to the 8b-qd1-quench detector. The quench detector tripped because of real magnet quenches at B7QFQ3_VT, B7QFQ2_VT and B7DRD0-D0. The beam permit tripped .049 sec. before the quench link. There where three real magnet quenches: b7q3, b7q2 and b7d0. (February 15, 2005, Editors Note: Additional magnets quenched during this event where corrector magnets bo7-qs3 and bo7-th2. Bring the total Magnets Quenched to 5) There was high beam loss at b7-lm3.1, b7-lm2.1, g7-lm1 and b7-lm0. There are now 24 beam induced quenches for this run. G Heppner
14-Feb	PR-059	1		bo7-th2	There was no indication of a power supply at fault prior to the quench. The Blue Quench Link trip was due to the 8b-qd1-quench detector. The quench detector tripped because of real magnet quenches at B7QFQ3_VT, B7QFQ2_VT and B7DRD0-D0. The beam permit tripped .049 sec. before the quench link. There where three real magnet quenches: b7q3, b7q2 and b7d0. (February 15, 2005, Editors Note: Additional magnets quenched during this event where corrector magnets bo7-qs3 and bo7-th2. Bring the total Magnets Quenched to 5) There was high beam loss at b7-lm3.1, b7-lm2.1, g7-lm1 and b7-lm0. There are now 24 beam induced quenches for this run. G Heppner
Total Counts:		**9**	**3**		
Real Magnet Quenches:		***12***			

Dipole Magnet Quenches - RHIC fy05

Date:	Ref Quench #	B	Y	Site-Wide Name	Technical Notes
13-Jan	PR-002		1	y7-d0	Yellow quench link trip was caused by 8b-qd2 quench detector. The quench detector tripped because of a real magnet quench at Y7QFQ3_VT. The beam permit tripped after the quench link. There were real magnet quenches at y7q3 and y7d0 . There were high beam losses at y7-lm3.2, y7-lm3.2c,y7-lm0, and g7-lm1 for over .076 sec. . Are the BLM thresholds correct? There is now 8 beam induced quenches for this run. There were no problems with any power supply prior to the quench. - Ganetis
19-Jan	PR-012	1		b7-d0	Blue quench link trip was caused by 8b-qd1 quench detector. The quench detector tripped because of a real magnet quench at B7QFQ3_VT. The beam permit tripped .586 sec before the quench link. There were real magnet quenches at b7q3, b7q2, b7q1, b7d0 and b5q3 . There were high beam losses at b7-lm3.1, b7-lm2.1, b7-lm0, and g7-lm1 which did not occur until approx. 0.5 sec after the beam permit tripped. Also y7-tq4, y7-tq5, y7-tq6, bi5-th3, bo7-qs3, bo7-tv3, and bo7-th2 quenched. There is now 9 beam induced quenches for this run. There were no problems with any power supply prior to the quench. -Ganetis Further investigation into the RHIC abort kicker situation that caused the blue quench at 0134... It turns out that a beam abort event had occurred before the ring was filled and ramped. The abort kickers do not recharge after a beam abort event occurs. In this case, the beam abort event occurred, and then presumably the ring was filled without a cogging reset being issued in RHIC Injection (which should have recharged the abort kickers.) -jak This was also exacerbated by filling ma
21-Jan	PR-019	1		b10d20	Blue quench link trip was caused by 12a-qd1 quench detector. The quench detector tripped because of a real magnet quench at B11QFQ2_VT. The beam permit tripped after the quench link. There were real magnet quenches at b10d20 and b11q2. Also bo10-th20 and bo11-th2 also quenched after the main magnets do to warm gas. There were high beam losses at these magnet location before the beam permit tripped. There were no problems with any power supply prior to the quench. The yellow ring also had real magnet quenches due to beam loss. There is now 11 beam induced quenches for this run. -Ganetis
2-Feb	PR-050	1		b10-Arc Dipole	There was no indication of a power supply at fault prior to the quench. The Blue Quench link trip was caused by the 11b-qd1-quench detector. The quench detector tripped because of a real magnet quench at B10DSA4_A3VT. The beam permit tripped .044 sec. before the quench link. There were two real magnet quenches at b10q4 and the b10 arc dipole. There was high beam loss at g10-lm5, g10-lm6, g10-lm7, g10-lm8, g10-lm10, g10-lm16, g10-lm20. There are now 19 beam induced quenches for this run. G Heppner
7-Feb	PR-052		1	b5-Arc Dipole	This yellow quench link trip was caused by the 5b-qd1 quench detector. The quench detector tripped because of a real magnet quench between arc magnets D16 through D20. The beam permit tripped 0.95 seconds before the quench link. There were high beam losses at g5-lm16, g5-lm17, g5-lm18, g5-lm19, and g5-lm20 for over 0.3 sec. The qdRealQuench pet page did not show this as a real quench because this pet page is not as reliable at low current operation. There are now 20 beam induced quenches for this run. There were no problems with any power supply prior to the quench. -Don Bruno
14-Feb	PR-059	1		b7d0	There was no indication of a power supply at fault prior to the quench. The Blue Quench Link trip was due to the 8b-qd1-quench detector. The quench detector tripped because of real magnet quenches at B7QFQ3_VT, B7QFQ2_VT and B7DRD0-D0. The beam permit tripped .049 sec. before the quench link. There where three real magnet quenches: b7q3, b7q2 and b7d0. (February 15, 2005, Editors Note: Additional magnets quenched during this event where corrector magnets bo7-qs3 and bo7-th2. Bring the total Magnets Quenched to 5) There was high beam loss at b7-lm3.1, b7-lm2.1, g7-lm1 and b7-lm0. There are now 24 beam induced quenches for this run. G Heppner
13-Mar	PR-081		1	Y2-Arc Dipole	Yellow quench link trip was caused by 3b-qd1 quench detector. The quench detector tripped because of a real magnet quench at Y2DSA5_A4VT. The beam permit tripped after the quench link. There were real magnet quenches in sector 2 between D11 and D14. There was a high beam losses at g2-lm11, g2-lm12, and g2-lm13. I could not tell if there were any p.s. problems before the quench because pscompare did not have the correct data. There is now 29 beam induced quench for this run. -Ganetis [quench]
Total Counts:		**4**	**3**		
Real Magnet Quenches:		*7*			

Date:	Ref Quench #	B	Y	Site-Wide Name	Technical Notes
11-Feb	PR-056	1		B1DRDX	The blue quench link tripped due to the 2b-qd1 quench detector. The quench detector tripped because of the signal in B2/1DX_DX. There was a Real Magnet quench at B1DRDX. Alarm Log indicated that the Brahms D3 Magnet had tripped on a Security Trip, AC Fault and Component Fault at 08:53:15. Log View indicates that the supply ramped up at turn on causing a voltage induced into the b2dx. This D3 magnet is next to the b2dx magnet. George Ganetis had confirmed this type of fault during the last run. G Heppner
8-Mar	PR-077	1		B2DRDX	A Major Power Dip caused multiple systems to go down. The Main Links dropped including the following Tunnel Alcoves: 1A thru 5B and 11C. Alcoves 5C thru 11B remained on. While running TAPE to recover the Sextupoles, bi1-sxd required a second attempt before coming back on. There were no faults indicated as to why this required a second TAPE run. QD plots indicated that there was one Real Magnet quench at b2dhX. G Heppner
Total Counts:		**2**	**0**		
Real Magnet Quenches:		***2***			

Gamma-T Magnet Quenches - RHIC fy05

Date:	Ref Quench #	B	Y	Site-Wide Name	Technical Notes
Total Counts:		**0**	**0**		
Real Magnet Quenches:		***0***			

Quad Magnet Quenches - RHIC fy05

Date:	Ref Quench #	B	Y	Site-Wide Name	Technical Notes
29-Nov	MS-001	1		b7q2	Blue quench link trip was caused by the 8b-qd1-quench detector. The quench detector tripped because of a real magnet quench at B7QFQ2_VT. The beam permit tripped .008 sec before the quench link. There was a real magnet quench at b7q2. There was a moderate beam loss at g7-lm1 for over 1 sec. There is now 1 beam induced quench for this run. - Ganetis [quench]
30-Nov	MS-009	1		b8q2	*Physics Log:* While chatting with Haixin, we realized that the problems are probably being caused by the radial wiggles from the chromaticity measurement! These are still on every ramp, but are now turned off for future ramps. The beta*=0.85 m squeeze surely leaks dispersion into the IR, and this gives the localized orbit problems that seem very sensitive to things like steering. Haixin will test this out with a lower-intensity non-wiggle ramp in his shift. Perhaps we'll get beam to store tonight after all. -TJS
23-Dec	MS-017	1		b7q3	Blue quench link trip was caused by 8b-qd1 quench detector. The quench detector tripped because of a real magnet quench at B7QFQ3_VT. The beam permit tripped after the quench link. There was a real magnet quench at b7q3 . There was a high beam loss at g7-lm3.1 for over 4 sec. Are the BLM thresholds correct? There is now 3 beam induced quench for this run. -Ganetis [quench]
1-Jan	MS-034		1	y8q2	High level of beam in Sector 8 Triplet y8-lm2.1 = 46134.57 for over 1 second, y8-lm3.1 = 2734.45 and b8-lm2.1 = 45016.52, along with the analysis of QD Plot, confirms that Y8QFQ2_VT of the q2 magnet had indeed suffered a beam induced quench. G. Heppner
1-Jan	MS-035		1	y8q2	High level of beam in Sector 8 Triplet g8-lm1 = 2890.94, y8-lm2.1 = 46123.29 for over 1 second, y8-lm3.1 = 4580.99 and b8-lm2.1 = 44848.88, along with the analysis of QD Plot, confirms that Y8QFQ2_VT of the q2 magnet had indeed suffered a beam induced quench. G. Heppner
1-Jan	MS-036		1	y8q2	High level of beam in Sector 8 Triplet Y8-lm0 = 2645.95 g8-lm1 = 4123.62, y8-lm2.1 = 46123.29 for over 1 second, y8-lm3.1 = 2652.42 and b8-lm2.1 = 45000.03, along with the analysis of QD Plot, confirms that Y8QFQ2_VT of the q2 magnet had indeed suffered a beam induced quench. G. Heppner
3-Jan	MS-041		1	y8q2	Yellow quench link trip was caused by 8b-qd2 quench detector. The quench detector tripped because of a real magnet quench at Y8QFQ2_VT. The beam permit tripped after the quench link. There was a real magnet quench at y8q2 . There was a high beam loss at y8-lm2.1 for over 1.36 sec. . Are the BLM thresholds correct? There is now 7 beam induced quenches for this run. There were no problems with any power supply prior to the quench. -Ganetis
13-Jan	PR-002		1	y7q3	Yellow quench link trip was caused by 8b-qd2 quench detector. The quench detector tripped because of a real magnet quench at Y7QFQ3_VT. The beam permit tripped after the quench link. There were real magnet quenches at y7q3 and y7d0 . There were high beam losses at y7-lm3.2, y7-lm3.2c,y7-lm0, and g7-lm1 for over .076 sec. . Are the BLM thresholds correct? There is now 8 beam induced quenches for this run. There were no problems with any power supply prior to the quench. - Ganetis
19-Jan	PR-012	1		b7-q3	Blue quench link trip was caused by 8b-qd1 quench detector. The quench detector tripped because of a real magnet quench at B7QFQ3_VT. The beam permit tripped .586 sec before the quench link. There were real magnet quenches at b7q3, b7q2, b7q1, b7d0 and b5q3 . There were high beam losses at b7-lm3.1, b7-lm2.1, b7-lm0, and g7-lm1 which did not occur until approx. 0.5 sec after the beam permit tripped. Also y7-tq4, y7-tq5, y7-tq6, bi5-th3, bo7-qs3, bo7-tv3, and bo7-th2 quenched. There is now 9 beam induced quenches for this run. There were no problems with any power supply prior to the quench. -Ganetis Further investigation into the RHIC abort kicker situation that caused the blue quench at 0134... It turns out that a beam abort event had occurred before the ring was filled and ramped. The abort kickers do not recharge after a beam abort event occurs. In this case, the beam abort event occurred, and then presumably the ring was filled without a cogging reset being issued in RHIC Injection (which should have recharged the abort kickers.) -jak This was also exac
19-Jan	PR-012	1		b7-q2	Reference to PR-012, b7-q3, 19-Jan.
19-Jan	PR-012	1		b7-q1	Reference to PR-012, b7-q3, 19-Jan.
19-Jan	PR-012	1		b5-q3	Reference to PR-012, b7-q3, 19-Jan.
21-Jan	PR-018		1	y9q4	Yellow quench link trip was caused by 10a-qd2 quench detector. The quench detector tripped because of a real magnet quench at Y6QFQ6_4VT. The beam permit tripped .120 sec. before the quench link. There was a real magnet quench at y9q4 . There was a high beam loss at y9-lm4 after the permit trip. There is now 10 beam induced quenches for this run. There were no problems with any power supply prior to the quench. -Ganetis
21-Jan	PR-019		1	y6q3	Yellow quench link trip was caused by 8b-qd2 quench detector. The quench detector tripped because of a real magnet quench at Y7QFQ3_VT. The beam permit tripped after the quench link. There were real magnet quenches at y6q3, y7q3 and y8q3. Also yo8-th2 and yi6-th3 also quenched after the main magnets do to warm gas. There were high beam losses at these magnet location before the beam permit tripped. There were no problems with any power supply prior to the quench. The blue ring also had real magnet quenches due to beam loss. There is now 11 beam induced quenches for this run. -Ganetis
21-Jan	PR-019		1	y7q3	Reference to PR-019, y6q3, 21-Jan.
21-Jan	PR-019		1	y8q3,	Reference to PR-019, y6q3, 21-Jan.
21-Jan	PR-019	1		b11q2	Blue quench link trip was caused by 12a-qd1 quench detector. The quench detector tripped because of a real magnet quench at B11QFQ2_VT. The beam permit tripped after the quench link. There were real magnet quenches at b10d20 and b11q2. Also bo10-th20 and bo11-th2 also quenched after the main magnets do to warm gas. There were high beam losses at these magnet location before the beam permit tripped. There were no problems with any power supply prior to the quench. The yellow ring also had real magnet quenches due to beam loss. There is now 11 beam induced quenches for this run. -Ganetis
27-Jan	PR-033	1		b8q2	At 15:28:00 Cryo reported that the DX magnet in 8 o'clock quenched, and they are waiting for temperatures to stabilize. There was no indication of a DX Magnet quench that I could see. There was no indication of a power supply at fault prior to the quench. A blue quench link trip was caused by the 8b-qd1-quench detector. The quench detector tripped because of a real magnet quench at B8QFQ2_VT. The beam permit tripped .009 sec. before the quench link. There was a real magnet quench at b8q2. There was high beam loss at b8-lm2.1 and b8-lm3.2. There are now 12 beam induced quenches for this run.. G Heppner
28-Jan	PR-034	1		b5q2	There was no indication of a power supply at fault prior to the quench. A blue quench link trip was caused by the 6b-qd1-quench detector. The quench detector tripped because of a real magnet quench at B5QFQ2_VT. The beam permit tripped .019 sec. before the quench link. There was a real magnet quench at b5q2. There was high beam loss at b5-lm2.1. There are now 13 beam induced quenches for this run.. G Heppner
28-Jan	PR-036	1		b10q4	There was no indication of a power supply at fault prior to the quench. A blue quench link trip was caused by the 10a-qd1-quench detector. The quench detector tripped because of a real magnet quench at B10QFQ4_6VT. The beam permit tripped .066 sec. before the quench link. There was a real magnet quench at b10q4. There was high beam loss at b10-lm4. There are now 14 beam induced quenches for this run.. G Heppner

Quad Magnet Quenches - RHIC fy05

29-Jan	PR-039		1	y8q2	There were no problems with any power supply prior to the quench. A yellow quench link trip was caused by the 8b-qd2-quench detector. The quench detector tripped because of a real magnet quench at Y8QFQ2_VT. The beam permit tripped .071 sec. before the quench link. There was a real magnet quench at y8q2. There was high beam loss at y8-lm2.1. There are now 15 beam induced quenches for this run.. G Heppner
29-Jan	PR-040		1	y8q2	There was no indication of a power supply at fault prior to the quench. A yellow quench link trip was caused by the 8b-qd2-quench detector. The quench detector tripped because of a real magnet quench at Y8QFQ2_VT. The beam permit tripped .057 sec. before the quench link. There was a real magnet quench at y8q2. There was high beam loss at y8-lm2.1. There are now 16 beam induced quenches for this run.. G Heppner
29-Jan	PR-041		1	y8q2	There was no indication of a power supply at fault prior to the quench. A yellow quench link trip was caused by the 8b-qd2-quench detector. The quench detector tripped because of a real magnet quench at Y8QFQ2_VT. The beam permit tripped .050 sec. before the quench link. There was a real magnet quench at y8q2. There was high beam loss at y8-lm2.1. There are now 17 beam induced quenches for this run.. G Heppner
1-Feb	PR-044		1	y01-Arch Quad	There was no indication of a power supply at fault prior to the quench. The Yellow Quench link trip was caused by the 1b-qd1-quench detector. The quench detector tripped because of a real magnet quench at Y1QFA2_A1VT. The beam permit tripped after the quench link. There was one real magnet quench in the y01 Arc Quad. There was high beam loss at g1-lm20, g1-lm19, g1-lm18, g1-lm17 and g1-lm16. There are now 18 beam induced quenches for this run. G Heppner
1-Feb	PR-044	1		b04-Arc Quad	There was no indication of a power supply at fault prior to the quench. The Blue Quench link trip was caused by the 5b-qd1-quench detector. The quench detector tripped because of a real magnet quench at B4QFA6_A7VT. The beam permit tripped .273 seconds prior to the quench link. There was one real magnet quench in the b04 Arc Quad Region. There was high beam loss at g4-lm13, g4-lm14 and g4-lm15. There are now 18 beam induced quenches for this run. G Heppner
2-Feb	PR-050	1		b10-q4	There was no indication of a power supply at fault prior to the quench. The Blue Quench link trip was caused by the 11b-qd1-quench detector. The quench detector tripped because of a real magnet quench at B10DSA4_A3VT. The beam permit tripped .044 sec. before the quench link. There were two real magnet quenches at b10q4 and the b10 arc dipole. There was high beam loss at g10-lm5, g10-lm6, g10-lm7, g10-lm8, g10-lm10, g10-lm16, g10-lm20. There are now 19 beam induced quenches for this run. G Heppner
7-Feb	PR-053		1	y7q2	This yellow quench link trip was caused by the yi11-sxd-ps tripping. This sextupole p.s. tripped because the maximum ramp rate of 0.2A/s was exceeded. It was ramped at about 0.7A/s. The sextupole p.s. tripped about 11 seconds before the yellow qli occurred. Once the sextupole p.s. trips it takes about 17 seconds for the current to decay down to zero. It was the 8b-qd2 quench detector that tripped the yellow quench link. The quench detector tripped because of a real magnet quench at Y7Q2. The quench link tripped 1us before the permit. There was high beam loss (5000 rad/hr) at y7-lm3.2 for over 4 seconds before the trip. Is the threshold for this beam loss monitor set correctly? There are now 21 beam induced quenches for this run. -Don Bruno [quench]
8-Feb	PR-054	1		b11q2	There was no indication of a power supply at fault prior to the quench. The 12a-qd1-quench detector caused blue Quench link to trip. The quench detector tripped because of a real magnet quench at B11QFQ2_VT. The beam permit tripped .039 sec. before the quench link. There where two real magnet quenches: b11q2 and bo11-th2. There was high beam loss at g11-lm1 and b11-lm0. There are now 22 beam induced quenches for this run. G Heppner
13-Feb	PR-057	1		b11q2	Blue quench link trip was caused by 10a-qd1 quench detector. The quench detector tripped because of a real magnet quench at B10QFQ4_6VT. The beam permit tripped .143 sec before the quench link. There were real magnet quenches at b10q4 and b11q2. There was a high beam loss at g7-lm1 and a moderate loss at g11-lm1. There were no problems with any power supply prior to the quench. . There is now 23 beam induced quench for this run. -Ganetis [quench]
13-Feb	PR-057	1		b10q4	Blue quench link trip was caused by 10a-qd1 quench detector. The quench detector tripped because of a real magnet quench at B10QFQ4_6VT. The beam permit tripped .143 sec before the quench link. There were real magnet quenches at b10q4 and b11q2. There was a high beam loss at g7-lm1 and a moderate loss at g11-lm1. There were no problems with any power supply prior to the quench. . There is now 23 beam induced quench for this run. -Ganetis [quench]
14-Feb	PR-059	1		b7q2	There was no indication of a power supply at fault prior to the quench. The Blue Quench Link trip was due to the 8b-qd1-quench detector. The quench detector tripped because of real magnet quenches at B7QFQ3_VT, B7QFQ2_VT and B7DRD0-D0. The beam permit tripped .049 sec. before the quench link. There where three real magnet quenches: b7q3, b7q2 and b7d0. (February 15, 2005, Editors Note: Additional magnets quenched during this event where corrector magnets bo7-qs3 and bo7-th2. Bring the total Magnets Quenched to 5) There was high beam loss at b7-lm3.1, b7-lm2.1, g7-lm1 and b7-lm0. There are now 24 beam induced quenches for this run. G Heppner
14-Feb	PR-059	1		b7q3	There was no indication of a power supply at fault prior to the quench. The Blue Quench Link trip was due to the 8b-qd1-quench detector. The quench detector tripped because of real magnet quenches at B7QFQ3_VT, B7QFQ2_VT and B7DRD0-D0. The beam permit tripped .049 sec. before the quench link. There where three real magnet quenches: b7q3, b7q2 and b7d0. (February 15, 2005, Editors Note: Additional magnets quenched during this event where corrector magnets bo7-qs3 and bo7-th2. Bring the total Magnets Quenched to 5) There was high beam loss at b7-lm3.1, b7-lm2.1, g7-lm1 and b7-lm0. There are now 24 beam induced quenches for this run. G Heppner
17-Feb	PR-064		1	y7q2	There was no indication of a power supply at fault prior to the quench. The yellow quench link tripped due to the 8b-qd2-quench detector. The quench detector tripped because of a real magnet quench at Y7QFQ2_VT. The beam permit tripped 0.119 seconds before the quench link. There was one real magnet quench at y7q2. There was high beam loss seen at y7-lm3.2 and y7-lm2.1. There are now 25 beam induced quenches for this run. G Heppner
1-Mar	PR-070	1		b7q2	Postmortems show bo7-qd1, bo7-qf2 and bo7-qd3 reacting to the laws of a magnet quench. (Voltage / Current Curve all before T=zero). Analysis shows that there was no indication of a power supply at fault prior to this quench event. The blue quench link tripped due to quench detector 8b-qd1 whereas a real magnet quench occurred at B7QFQ2_VT. The beam permit tripped 0.079 seconds before the quench link. Beam Losses were high at the Sector 7 Triplet Region, b7-lm3.1 and b7-lm2.1. There was one real magnet quench at b7q2. There are now 26 beam induced quenches for this Fy05 run. G Heppner
7-Mar	PR-076		1	yo8 Arc Quad	I did not see any indications that a power supply had caused this quench event. The yellow quench link tripped due to quench detector 9b-qd1 whereas a real magnet quench occurred at Y8QFA3_A2VT. The beam permit tripped 2 u-sec after the quench link. Beam Losses were high in sector 8 at g8-lm10 There was one arc magnet in the sector 8 Quad Focus magnet string Q10 thru Q20. There are now 27 beam induced quenches for this Fy05 run. G Heppner
13-Mar	PR-080		1	y12-Arc Quad	Yellow quench link trip was caused by 1b-qd1 quench detector. The quench detector tripped because of a real magnet quench at Y12QFA3_A2VT. The beam permit tripped after the quench link. There was a real magnet quench at y12q18. There was a high beam loss at g1-lm18. I could not tell if there were any p.s. problems before the quench because pscompare did not the correct data. There is now 28 beam induced quench for this run. -Ganetis [quench]

Quad Magnet Quenches - RHIC fy05

27-Mar	PR-090	1		b7q2	The 8b-qd1-quench detector caused the blue quench link trip. The quench detector tripped because of a real magnet quench at B7QFQ2_VT. The beam permit tripped after the quench link. There was one real magnet quench at the b7q2 magnet. High beam losses where seen at b7-lm3.1, b7-lm2.1 and g7-lm1. There was no indication of a power supply fault. There are now 30 beam induced quench for the Fy05 Run, G. Heppner Oops, I confess my sin. Too optimistic, I turned off the ac dipole in the AGS and double the bunch intensity, which caused the blue quench. However, the good part is this is not snake! –Mei
1-Apr	PR-094		1	y6q2	At 13:42:03, the 6b-qd2-quench detector caused the yellow quench link to trip. The quench detector tripped because of a real magnet quench at Y6QFQ2_VT. The beam permit tripped after the quench link. There was one real magnet quench in the Sector 6 Triplet Region at magnet y6q2. High beam losses where seen at g6-lm1 and y6-lm2.1. There was no indication of a power supply fault. There are now 31 beam induced quench for the Fy05 Run. -G. Heppner [yellow] [quench]
4-Apr	PR-103		1	y7q3	19:37: The 8b-qd2-quench detector caused the yellow quench link to trip. The quench detector tripped because of a real magnet quench at Y7QFQ3_VT. The beam permit tripped after the quench link. There was one real magnet quench in the Sector 7 Triplet Region at magnet y7q3. High beam losses where seen at y7-lm3.2 and y7-lm3.1. There was no indication of a power supply fault. There are now 32 beam induced quench for the Fy05 Run. -G. Heppner [rhic] [quench]
31-May	PR-134	1		b7q2	New Ramp with Higher Energies to 205Gev, the 8b-qd1-quench detector caused the Blue quench link to trip. The quench detector tripped because of a real magnet quench at B7QFQ2_VT. The beam permit tripped prior to the quench link. There was one real magnet quench in the Sector 7 Triplet Region at magnet b7q2. Highest beam losses occurred at b7-lm2.1. There was no indication of a power supply fault. There are now 33 beam induced quenches for the Fy05 Run. -G. Heppner [rhic] [quench]
31-May	PR-136	1		b7q2	New Ramp with Higher Energies to 205Gev, the 8b-qd1-quench detector caused the Blue quench link to trip. The quench detector tripped because of a real magnet quench at B7QFQ2_VT. The beam permit tripped prior to the quench link. There was one real magnet quench in the Sector 7 Triplet Region at magnet b7q2. Highest beam losses occurred at b7-lm2.1. There was no indication of a power supply fault. There are now 34 beam induced quenches for the Fy05 Run. -G. Heppner [rhic] [quench]
1-Jun	PR-137	1		b8q3	New Ramp with Higher Energies to 205Gev, the 8b-qd1-quench detector caused the Blue quench link to trip. The quench detector tripped because of a real magnet quench at B8QFQ3_VT. The beam permit tripped after the quench link. There was one real magnet quench in the Sector 8 Triplet Region at magnet b8q3. High beam losses where seen at b8-lm3.1 and b8-lm 3.2. There was no indication of a power supply fault. There are now 35 beam induced quenches for the Fy05 Run. -G. Heppner [rhic] [quench]
14-Jun	PR-151		1	y8q2	Postmortems: yo8-qd1, yo8-qf2 and yo8-qd3 all show the Laws of a Real Magnet Quenching. The 8b-qd2-quench detector caused the Yellow quench link to trip. The quench detector tripped because of a real magnet quench at Y8QFQ2_VT. The beam permit tripped prior to the quench link. There was one real magnet quench in the Sector 8 Triplet Region at magnet y8q2. Highest beam losses occurred at y8-lm2.1. There was no indication of a power supply fault. There are now 36 beam induced quenches for the Fy05 Run -Gregg Heppner [rhic] [quench]
24-Jun	PR-154	1		b6q3	**Technical Notes / Sequence of Events:** Postmortems: The following Magnets, bo6-qd1, bo6-qf2, bi5-qf3 and bi5-qd2 also show the Laws of a Real Magnet Quenching. The 6b-qd1-quench detector caused the Blue quench link to trip. The quench detector tripped because of a real magnet quench at B6QFQ3_VT. The beam permit tripped after the quench link. There was one real magnet quench in the Sector 6 Triplet Region at magnet b6q3. Highest beam losses occurred at b6-lm3.2. There was no indication of a power supply fault. There are now 37 beam induced quenches for the Fy05 Run -Gregg Heppner [rhic] [quench]
Total Counts:		**24**	**20**		
Real Magnet Quenches:		***44***			

Snake Magnet Quenches - RHIC fy05

Date:	Ref Quench #	B	Y	Site-Wide Name	Technical Notes
11-Apr	SQ-001	1		bi9-snk7-2.3	There are no indications of a Power Supply at fault. Even the associated QPA's did not show faults. The Iref did not change on bi5-rot3-2.3 or bo6-rot3-2.3 but there was a sudden drop in power supply current that caused the quench detectors associated with these two magnets to trip them. Quench Detector 9c-qd1 tripped because of a real magnet quench at bi9-snk7-2.3 and yo9-snk7-2.3. There had been Low beam losses prior to T=zero on BLM's at b9-lm7.1-snk and y9-lm7.1-snk. Magnet bi9-snk7-1.4 also quenched 2.05 seconds later due to the transfer of warm gas from the bi9-snk7-2.3 quench. Quench Detector 10a-qd1 then tripped the Blue Link due to a Real Buss Quench at B9QFBU9_7VT in Sector 9 Quad Focus Buss 9-7. Heat transfer of Warm Gas from the bi9-snk7-2.3 and bi9-snk7-1.4 Snake Magnet was the cause of this Buss Quench. This is the first beam induced quench for the RHIC Fy05 Physics Run. G Heppner
11-Apr	SQ-001	1		bi9-snk7-1.4	Ref to 11-Apr, SQ-001, bi9-snk7-2.3 G. Heppner
11-Apr	SQ-001		1	yo9-snk7-1.4	Ref to 11-Apr, SQ-001, bi9-snk7-2.3 G. Heppner
13-Apr	SQ-002		1	yi3-snk7-2.3	There are no indications of a Power Supply at fault. The Snake trip was caused by the 3c-qd1 quench detector due to a real magnet quench at yi3-snk7-2.3. There was medium beam loss at y3-lm7.2-snk. Magnet yi3-snk7-1.4 also quenched due to the transfer of warm gas from the yi3-snk7-2.3 quench. This is the second snake beam induced quench for the RHIC Fy05 Physics Run. -G. Heppner [yellow] [quench]
13-Apr	SQ-002		1	yi3-snk7-1.4	Ref to 13-Apr, SQ-002, yi3-snk7-2.3 G. Heppner
15-Apr	SQ-003	1		bo3-snk7-2.3	A power dip had occurred at 03:18 this morning. The 3c-qd1-quench detector tripped due to a real magnet quench at yi3-snk7-2.3. There were no indications of Beam Losses in this area at the time of the event. Beam Abort did take place in the Dump Stations. Magnet yi3-snk7-1.4 also quenched due to the transfer of warm gas from the yi3-snk7-2.3 quench. This is the first Power Dip induced quench for the RHIC Fy05 Physics Run. -G. Heppner
15-Apr	SQ-003	1		bo3-snk7-1.4	Ref to 15-Apr, SQ-003, bo3-snk7-2.3 G. Heppner
20-Apr	SQ-004			yo9-snk7-R2_GL	The 9c-qd1-quench detector tripped because it detected a Gas Cool Lead Quench at yo9-snk7-R2_GL. A Cryogenic Flow Rate problem for this device (flow had been too low for over an hour) caused the Gas Cooled Lead to heat up and eventually quenched. Note that this device was not replaced. This caused the yo9-snk7.2.3-ps to trip off at operating current causing its magnet to quench. Approximately 2.149 seconds later, the yo9-snk7-1.4 magnet quenched due to perturbation. -G. Heppner [yellow] [quench]
20-Apr	SQ-004		1	yo9-snk7-2.3	Ref to 20-Apr, SQ-004, yo9-snk7-R2_GL G. Heppner
20-Apr	SQ-004		1	yo9-snk7-1.4	Ref to 20-Apr, SQ-004, yo9-snk7-R2_GL G. Heppner
23-Apr	SQ-005	1		bo3-snk7-1.4	Looking at the Snapshot data, The Current and Voltage both drop at the same time while Iref and wfg remained constant. Therefore, the supply was not told to change its status. Qdplots confirms this Current drop and the measurements are as follows: Operating Current of 100.07 amps, a sudden drop to 97.27 amps occurs in 0.033 seconds. This sudden change in current is what caused the 3C Quench Detector to trip the supply. Timing Resolver in 3C also indicated that the Quench Detector tripped the supply. There is no way to determine if there had been an interruption in AC power for the Alcoves. G. Heppner
23-Apr	SQ-005	1		bo7-rot3-1.4	Looking at the Snapshot data, The Current and Voltage both drop at the same time while Iref and wfg remained constant. Therefore, the supply was not told to change its status. Qdplots confirms this Current drop and the measurements are as follows: Park Current of 3.15 amps, a sudden drop to 2.51 amps occurs in 0.28582 seconds. After 25 seconds of data, the signal indicated 2.13888 amps. (An offset?) This sudden change in current is what caused the 7C Quench Detector to trip the supply. Timing Resolver in 7C also indicated that the Quench Detector tripped the supply. There is no way to determine if there had been an interruption in AC power for the Alcoves. Yi7-rot3-2.3 also showed similar Current / Voltage drops while Iref and wfg remained constant at its Park Current of 0.631 amps. This supply did not trip to Standby as Snapshot indicates it recovered back to its Park Current. QPA Control also indicated that the supply stayed on. (File# 1114277133) G. Heppner
27-Apr	SQ-006	1		bo3-snk7-1.4	Wfgman Archive: Blue and Yellow indicate Reference at Injection, all supplies tripped at that point. Postmortem Files for Power Supplies not available at the time of this report. The facility encountered a major power dip due to a quick passing thunderstorm front dropping both links at Injection Current. All eight (8) Snake magnets quenched while at operating currents. Bi8-rot3-2.3 and yo8-rot3-1.4 did not register on Qdplots nor Snapshot. Only bo3-snk7-1.4-ps, yi3-snk7-2.3-ps indicated AC Phase Fault. G Heppner
27-Apr	SQ-006	1		bo3-snk7-2.3	Ref to 27-Apr, SQ-006, bo3-snk7-1.4 G. Heppner
27-Apr	SQ-006		1	yi3-snk7-1.4	Ref to 27-Apr, SQ-006, bo3-snk7-1.4 G. Heppner
27-Apr	SQ-006		1	yi3-snk7-2.3	Ref to 27-Apr, SQ-006, bo3-snk7-1.4 G. Heppner
27-Apr	SQ-006	1		bi9-snk7-1.4	Wfgman Archive: Blue and Yellow indicate Reference at Injection, all supplies tripped at that point. Postmortem Files for Power Supplies not available at the time of this report. The facility encountered a major power dip due to a quick passing thunderstorm front dropping both links at Injection Current. All eight (8) Snake magnets quenched while at operating currents. Bi8-rot3-2.3 and yo8-rot3-1.4 did not register on Qdplots nor Snapshot. Only bo3-snk7-1.4-ps, yi3-snk7-2.3-ps indicated AC Phase Fault. G Heppner
27-Apr	SQ-006	1		bi9-snk7-2.3	Ref to 27-Apr, SQ-006, bi9-snk7-1.4 G. Heppner
27-Apr	SQ-006		1	Yo9-snk7-1.4	Ref to 27-Apr, SQ-006, bi9-snk7-1.4 G. Heppner
27-Apr	SQ-006		1	Yo9-snk7-2.3	Ref to 27-Apr, SQ-006, bi9-snk7-1.4 G. Heppner
2-May	SQ-007	1		bi5-rot3-2.3	In reference to the MCR comment below, several supplies do indicate a slight change in Voltage / Current. I believe this is due to the warm flow of gas being dissipated through the path of the Cryogenic Flow. It would appear that Beam was not an issue with the bi5-rot3-2.3 magnet quenching at operating current. The Cryo Log indicated an earlier problem with 2 mass flow controllers (H5452E @ spin BI5HRD & H6388E @ spin YO5HRD) [D203] intermittently flowing above & below set point deviation allowance. Beginning to happen frequently, the flow rate seemed to return to within deviation limit prior to 3-minute window for alarm. [D259]. A possible power supply problem with bi5-rot3-2.3 needs further investigation during the next maintenance day. However for now, quench detector 5c-qd1 tripped due to a real magnet quench at bi5-rot3-2.3. At approximately 2.98 seconds later, bi5-rot3-1.4 magnet quenched due to a flow of warm gas created by the bi5-rot3-2.3 magnet. G. Heppner
2-May	SQ-007	1		bi5-rot3-1.4	Ref to 02-May, SQ-007, bi5-rot3-2.3 G. Heppner
3-May	SQ-008			yi3-snk7-R2_GL	The following occurred after several of the Operations File System computers had crashed at 10:10:33 as per the Alarm Log Page. Gas Cooled Lead YI3SNK7R2_GL quenched first, causing the yi3-snk7-2.3 magnet to quench at operating current. Magnet yi3-snk7-1.4 according to the time line unless the data is insufficient due to the Controls System going down, appears to have quenched at the same time. G. Heppner

Snake Magnet Quenches - RHIC fy05

3-May	SQ-008		1	yi3-snk7-2.3	Ref to 03-May, SQ-008, yi3-snk7-R2_GL G. Heppner
3-May	SQ-008		1	yi3-snk7-1.4	Ref to 03-May, SQ-008, yi3-snk7-R2_GL G. Heppner
3-May	SQ-008			bo3-snk7-R3_GL	The following occurred after several of the Operations File System computers had crashed at 10:10:33 as per the Alarm Log Page. Gas Cooled Lead BO3SNK7R3_GL quenched, causing the bo3-snk7-2.3 magnet to quench at operating current. Magnet bo3-snk7-1.4 then proceeded to quench 2.779 seconds after the bo3-snk7-2.3 magnet quenched due to the flow of warm gas. The time stamps for this event where taken from the Qdplots since all other data was not available due to the related Controls problem (systems down). G. Heppner
3-May	SQ-008	1		bo3-snk7-2.3	Ref to 03-May, SQ-008, bo3-snk7-R3_GL G. Heppner
3-May	SQ-008	1		bo3-snk7-1.4	Ref to 03-May, SQ-008, bo3-snk7-R3_GL G. Heppner
3-May	SQ-008			yo9-snk7-R3_GL	The following occurred after several of the Operations File System computers had crashed at 10:10:33 as per the Alarm Log Page. Gas Cooled Lead YO9SNK7R3_GL quenched, causing the yo9-snk7-2.3 magnet to quench at operating current. Magnet yo9-snk7-1.4 then proceeded to quench 2.115 seconds after yo9-snk7-2.3 had quenched due to the flow of warm gas. The time stamps for this event where taken from the Qdplots since all other data was not available due to the related Controls problem (systems down). G. Heppner
3-May	SQ-008		1	yo9-snk7-2.3	Ref to 03-May, SQ-008, yo9-snk7-R3_GL G. Heppner
3-May	SQ-008		1	yo9-snk7-1.4	Ref to 03-May, SQ-008, yo9-snk7-R3_GL G. Heppner
26-May	SQ-009	All	All	All Snk / SPN	Quench Analysis: Global Quench Detection Re-boot (Unexplained)
10-Jun	SQ-010	1		bo3-snk7-1.4	Operating at 100.03 amps, current drops suddenly to 97.36 amps. This sudden change in current is what caused the 3c-qd1 quench detector to trip. Seen before, it is still undetermined as to why the sudden drop in current. G. Heppner
12-Jun	SQ-011			YI3SNK7R2_GL	There was enough data that clearly shows that lead faults on the snakes in sector 3 quenched both blue and yellow snakes. The warm gas form these snake quenches quenched the main bus for both blue and yellow rings. Data also shows that the lead flow was increased for a short time before it went to a low level. This is what I believed happened. The lead current data from the Cryo server went down. The lead flow automatically goes to a high flow default value. The Cryo operators then brought the lead flow to a low value. This was in their Cryo e-log. This is what caused the snakes to have a lead fault. They should not have done this with current in the magnet. Some how the Cryo operators did not know the machine was a top energy and or MCR did not know it either. George Ganetis
12-Jun	SQ-011			BO3SNK7R3_GL	Ref to 12-June, SQ-011, yi3-snk7-1.4 G. Heppner
12-Jun	SQ-011		1	yi3-snk7-1.4	Ref to 12-June, SQ-011, yi3-snk7-1.4 G. Heppner
12-Jun	SQ-011		1	yi3-snk7-2.3	Ref to 12-June, SQ-011, yi3-snk7-1.4 G. Heppner
12-Jun	SQ-011	1		bo3-snk7-1.4	Ref to 12-June, SQ-011, yi3-snk7-1.4 G. Heppner
12-Jun	SQ-011	1		bo3-snk7-2.3	Ref to 12-June, SQ-011, yi3-snk7-1.4 G. Heppner
Total Counts:		**17**	**15**		
Real Magnet Quenches:		***32***			

Sextupole Magnet Quenches - RHIC fy05

Date:	Ref Quench #	B	Y	Site-Wide Name	Technical Notes
Total Counts:		**0**	**0**		
Real Magnet Quenches:		***0***			

Trim Quad (tq) Magnet Quenches - RHIC fy05

Date:	Ref Quench #	B	Y	Site-Wide Name	Technical Notes
13-Jan	PR-002		1	y7tq4	Tq Quenched in conjunction with the 8b-qd2 quench caused by Beam Induce that involved y7q3 and y7d0 due to warm gas travelling in the counter clockwise flow (Cryogenic Flow). Confirmed by Georg Ganetis. G Heppner
13-Jan	PR-002		1	y7tq5	Tq Quenched in conjunction with the 8b-qd2 quench caused by Beam Induce that involved y7q3 and y7d0 due to warm gas travelling in the counter clockwise flow (Cryogenic Flow). Confirmed by Georg Ganetis. G Heppner
13-Jan	PR-002		1	y7tq6	Tq Quenched in conjunction with the 8b-qd2 quench caused by Beam Induce that involved y7q3 and y7d0 due to warm gas travelling in the counter clockwise flow (Cryogenic Flow). Confirmed by Georg Ganetis. G Heppner
19-Jan	PR-012		1	y7-tq4	Blue quench link trip was caused by 8b-qd1 quench detector. The quench detector tripped because of a real magnet quench at B7QFQ3_VT. The beam permit tripped .586 sec before the quench link. There were real magnet quenches at b7q3, b7q2, b7q1, b7d0 and b5q3 . There were high beam losses at b7-lm3.1, b7-lm2.1, b7-lm0, and g7-lm1 which did not occur until approx. 0.5 sec after the beam permit tripped. Also y7-tq4, y7-tq5, y7-tq6, bi5-th3, bo7-qs3, bo7-tv3, and bo7-th2 quenched. There is now 9 beam induced quenches for this run. There were no problems with any power supply prior to the quench. -Ganetis Further investigation into the RHIC abort kicker situation that caused the blue quench at 0134... It turns out that a beam abort event had occurred before the ring was filled and ramped. The abort kickers do not recharge after a beam abort event occurs. In this case, the beam abort event occurred, and then presumably the ring was filled without a cogging reset being issued in RHIC Injection (which should have recharged the abort kickers.) -jak This was also exacerbated by f
19-Jan	PR-012		1	y7-tq5	Reference to PR-012, y7-tq4, 19-Jan.
19-Jan	PR-012		1	y7-tq6	Reference to PR-012, y7-tq4, 19-Jan.
Total Counts:		**0**	**6**		
Real Magnet Quenches:			***6***		

Magnet Type:	**Quenches**
AGS Cold Snake	0
Super BUSS	6
Correctors	12
Dipoles	7
DX Magnets	2
Gamma-T	0
Quads	44
Snakes	32
Sextupoles	0
Tq Magnets	6
Totals:	**109**